



HYBRID INVERTER

- 01 AC Couple with Micro/String Inverter
- 02 130A Max Discharge Current
- 03 Dual MPPT (120-450V)
- 04 Max Efficiency up to 97.6%
- 05 IP41: Dustproof and Waterproof
- 06 Compact and Elegant Design
- 07 Built-in Logger with Monitor and Control

Technical Parameter		SUNT-6.0kW-H	
Battery Input (DC Input)			
Supported Battery Type		LiFePO4 or Lead-Acid	
Battery Input Voltage Range (V)		40~60	
Max. Charge Voltage (V)		60 (Configurable)	
Max. Charge Current (A)		120 (Configurable)	
Max. Discharge Current (A)		130 (Configurable)	
Battery Capacity (Ah) (Recommend)		100~2000	
Charge for LiFePO4 Battery Pack		Communicating with BMS of the Battery Pack	
PV String Input (DC Input)			
Max. DC Input Power (W)		8000	
Max. DC Input Voltage (V)		500	
MPPT Voltage Range (V)		120~450	
Start-Up Voltage (V)		150	
Max. Input Current (A)		15x2 =30 2 MPPT Channels	
AC Output (Back-Up) Feed to Essential Load			
Max. Output Power (W)		6000	
Max. Output Apparent Power (VA)		6000	
Peak Output Apparent Power (VA)		12000	
Max. Output Current (A)		26	
Nominal Output Votage (Vac)		220/230/240 (Configurable) Single Phase	
Nominal Output Frequency (Hz)		50/60 (+/-0.2%) (Configurable)	
Max. Bypass Current (A)		40	
Shift Time (Bypass and Inverter) (ms)		10	
Output THD (Resistor Load)		<3%	
AC Input (On-Grid) Bypass to Essential Load/Charge the Battery/Feed to Home Load			
Max. Input Power (W)			
Bypass to Essential Load/Charge the Battery		6000	
Max. Output Power (W)			
Feed to Home Load		6000	
Max. Apparent Input Power (VA)			
Bypass to Essential Load/Charge the Battery		6000	
Max. Apparent Output Power (VA)			
Feed to Home Load		6000	
Nominal Input/Output Voltage (V)		220/230/240 (Auto Adjusted to Fit Home Grid) Single Phase	
Nominal Input/Output Frequency (Hz)		50/60 (Auto Adjusted to Fit Home Grid)	
Max. Bypass Current (A)		40	
Shift Time (Bypass and Inverter) (ms)		8	
Efficiency			
Max. Efficiency		97.60%	
Max. Battery to Load Efficiency		94.0%	
Europe Efficiency		97.60%	
MPPT Efficiency		99.9%	
Protection			
Integrated		Battery Over Charge Protection, Battery Low Voltage Protection, Over Temperature Protection , Output Overload Protection, Output Short Circuit Protection, Output Over Voltage Protection	
Certifications & Standards			
Grid Regulation & Safety EMC/Regulation		VDE-AR-N4105.UNE217001.G100; EN 50549-1; IEC 61727, IEC 62116, IEC 61683, IEC 62116; IEC/EN61000-6-1/3; IEC/EN62109-1/2	
General Data			
Protection Degree		IP41	
Size (LxWxH) (mm)		353×135×536	
Net Weight (kg)		13.7	